## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	/0/768,030
Source:	1,FWO
Date Processed by STIC:	10/18/04

# ENTERED



**IFWO** 

RAW SEQUENCE LISTING

DATE: 10/18/2004

PATENT APPLICATION: US/10/768,030

TIME: 10:55:39

Input Set : A:\2004-10-11 0760-0329P.ST25.txt
Output Set: N:\CRF4\10182004\J768030.raw

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3 <110> APPLICANT: Yasuhiko MUNAKATA et al.
5 <120> TITLE OF INVENTION: NOVEL HUMAN PARVOVIRUS B19 RECEPTOR AND USES THEREOF
7 <130> FILE REFERENCE: 0760-0329P
9 <140> CURRENT APPLICATION NUMBER: US 10/768,030
10 <141> CURRENT FILING DATE: 2004-02-02
12 <160> NUMBER OF SEQ ID NOS: 5
14 <170> SOFTWARE: PatentIn 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 732
18 <212> TYPE: PRT
19 <213 > ORGANISM: Homo sapiens
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30 Asp Asn Pro Leu Ser Gly Gly Asp Gln Tyr Gln Asn Ile Thr Val His
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32 Arg His Leu Met Leu Pro Asp Phe Asp Leu Leu Glu Asp Ile Glu Ser
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34 Lys Ile Gln Pro Gly Ser Gln Gln Ala Asp Phe Leu Asp Ala Leu Ile
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              100
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                       150
42 Leu Gln Phe Phe Leu Pro Phe Ser Leu Gly Lys Glu Asp Gly Ser Gly
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                   165
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               180
46 Pro Leu Lys Gly Ile Thr Glu Gln Gln Lys Glu Gly Leu Glu Ile Val
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48 Lys Met Val Met Ile Ser Leu Glu Gly Glu Asp Gly Leu Asp Glu Ile
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235

230

52 Glu Arg His Ser Ile His Trp Pro Cys Arg Leu Thr Ile Gly Ser Asn

RAW SEQUENCE LISTING DATE: 10/18/2004
PATENT APPLICATION: US/10/768,030 TIME: 10:55:39

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265		Leu	Ser	Ile	Arg		Ala	Ala	Tyr	Lys	Ser	Ile	Leu	Gln	Glu	Arg	Val
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Sa lle Gln Lys Glu Thr Val Tyr Cys Leu Asn Asp Asp Asp Glu Thr Glu 295   290   295   300	56	Lys	Lys	Thr	Trp	Thr	Val	Val	Asp	Ala	Lys	Thr	Leu	Lys	Lys	Glu	Asp
59		-					•										
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63								_		~ 7			_		<b>-</b>	<b>a</b>	
64 Gly Lys Cys Phe Ser Val Leu Gly Phe Cys Lys Ser Ser Gln Val Gln 65 340 345 350 66 Arg Arg Phe Phe Met Gly Asn Gln Val Leu Lys Val Phe Ala Ala Arg 67 355 360 366 68 Asp Asp Glu Ala Ala Ala Val Ala Leu Ser Ser Leu Ile His Ala Leu 69 370 375 380 70 Asp Asp Leu Asp Met Val Ala Ile Val Arg Tyr Ala Tyr Asp Lys Arg 71 385 390 395 400 72 Ala Asn Pro Gln Val Gly Val Ala Phe Pro His Ile Lys His Asn Tyr 73 405 405 74 Glu Cys Leu Val Tyr Val Gln Leu Pro Phe Met Glu Asp Leu Arg Gln 75 420 425 76 Tyr Met Phe Ser Ser Leu Lys Asn Ser Lys Lys Tyr Ala Pro Thr Glu 77 435 78 Ala Gln Leu Asn Ala Val Asp Ala Leu Ile Asp Ser Met Ser Leu Ala 79 450 455 80 Lys Lys Asp Glu Lys Thr Asp Thr Leu Glu Asp Leu Phe Pro Thr Thr 81 465 460 80 Lys Lys Asp Glu Lys Thr Asp Thr Leu Glu Asp Leu Phe Pro Thr Thr 81 465 485 490 495 84 Arg Ala Leu His Pro Arg Glu Pro Leu Pro Pro Ile Gln Gln His Ile 85 500 505 86 Trp Asn Met Leu Asn Pro Pro Ala Glu Val Thr Thr Lys Ser Gln Ile 87 515 88 Pro Leu Ser Lys Ile Lys Thr Leu Phe Pro Leu Ile Glu Ala Lys Lys 89 530 90 Lys Asp Gln Val Thr Ala Gln Glu Ile Phe Gln Asp Asn His Glu Asp 91 545 92 Gly Pro Thr Ala Lys Lys Leu Lys Thr Glu Gln Gly Gly Ala His Phe 93 560 94 Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val 95 560 96 Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Lys Asp 96 Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu 97 595 600 98 Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu 99 610 615 620		Val	Pro	Phe	Ser		Val	Asp	Glu	GIu		Met	ьуs	Tyr	гуѕ		GIU
66 Arg Arg Phe Phe Met Gly As Gln Val Leu Lys Val Phe Ala Ala Arg 67 355 360 366   68 Asp Asp Glu Ala Ala Ala Val Ala Leu Ser Ser Leu Ile His Ala Leu 69 370 375 375 380   70 Asp Asp Leu Asp Met Val Ala Ile Val Arg Tyr Ala Tyr Asp Lys Arg 71 385 390 390 395 400   72 Ala Asn Pro Gln Val Gly Val Ala Phe Pro His Ile Lys His Asn Tyr 405 405 410 415   73 405 405 410 425   74 Glu Cys Leu Val Tyr Val Gln Leu Pro Phe Met Glu Asp Leu Arg Gln 430   76 Tyr Met Phe Ser Ser Leu Lys Asn Ser Lys Lys Tyr Ala Pro Thr Glu 470   77 Asp Asp Leu Asn Ala Val Asp Ala Leu Ile Asp Ser Met Ser Leu Ala 610 Lys Lys Asp Glu Lys Thr Asp Thr Leu Glu Asp Leu Phe Pro Thr Thr 81 465		<b>~</b> 1	<b>-</b>	<b>G</b>	Dl		77 T.	T	a1	Dha		Tira	Cor	Cor	Cln		Cln
66 Arg Arg Phe Phe Met Gly Asn Gln Val Leu Lys Val Phe Ala Ala Arg 355 360 365 68 Asp Asp Glu Ala Ala Ala Val Ala Leu Ser Ser Leu IIe His Ala Leu 370 370 375 380 380 70 Asp Asp Leu Asp Met Val Ala IIe Val Arg Tyr Ala Tyr Asp Lys Arg 380 380 395 400 72 Ala Asn Pro Gln Val Gly Val Ala Phe Pro His IIe Lys His Asn Tyr 405 410 415 74 Glu Cys Leu Val Tyr Val Gln Leu Pro Phe Met Glu Asp Leu Arg Gln 420 425 430 76 Tyr Met Phe Ser Ser Leu Lys Asn Ser Lys Lys Tyr Ala Pro Thr Glu 435 440 445 78 Ala Gln Leu Asn Ala Val Asp Ala Leu IIe Asp Ser Met Ser Leu Ala 450 450 80 Lys Lys Asp Glu Lys Thr Asp Thr Leu Glu Asp Leu Phe Pro Thr Thr 81 465 470 475 84 Arg Ala Leu His Pro Arg Phe Gln Arg Leu Phe Gln Cys Leu Leu His 480 485 84 Arg Ala Leu His Pro Arg Glu Pro Leu Pro Pro IIe Gln Gln His IIe 500 86 Trp Asn Met Leu Asn Pro Pro Ala Glu Val Thr Thr Lys Ser Gln IIe 500 87 Ser Deu Ser Lys IIe Lys Thr Leu Phe Pro Leu IIe Glu Ala Lys Lys Ser Gln IIe 500 88 Pro Leu Ser Lys IIe Lys Thr Leu Phe Pro Leu IIe Glu Ala Lys Lys Ser Gln Ser Ser Lys Lys Asp Gln Val Thr Ala Gln Glu IIe Phe Gln Gln Gly Ala His Phe 500 89 Clys Asp Gln Val Thr Ala Gln Gly Ser Val Thr Ser Val Gly Ser Val Ser Ser Leu Ala Gly Ser Val Thr Ser Ser Leu Ala Gly Ser Val Thr Ser Val Gly Ser Val Ser Ser Ser Leu Ala Gly Ser Val Thr Ser Val Gly Ser Val Ser 590 98 Phe Glu Glu Ala Ser Asn Gln Leu IIe Asp Thr Leu Cal Lys Gln Lys Lys Lys Asp Glu Ala Ser Asn Gln Leu IIe Asn His IIe Glu Gln Phe Leu Gly Asp 610 615 620		GIY	ьуs	Cys		ser	vaı	ьeu	GIY		Cys	ьуѕ	ser	ser		vai	GIII
68       Asp Asp Glu Ala Ala Ala Val Ala Leu Ser Ser Leu IIe His Ala Leu 370       375       380       400       415       410       410       410       400       420       420       410       410       410       415		7	7	Dha		Mot	C1	7) an	Cln		Lau	Lare	17=1	Dho		Δla	Δra
68         Asp         Asp         Glu         Ala         Ala         Ala         Val         Ala         Leu         Ser         Leu         His         Ala         Leu         Asp         Asp         Leu         Asp         Met         Val         Ala         Ile         Val         Arg         Tyr         Ala         Tyr         Asp         Lys         Arg         Arg         Ala         Tyr         Ala         Tyr         Ala         Tyr         Ala         Tyr         Ala         Pro         His         Ile         Lys         His         Asn         Tyr         Ago         Asn         Tyr         Ala         One         Ala         One         Ala         Ala         Ile         Pro         His         Ile         Lys         His         Asn         Asn         Tyr         Ala         Ile         Lys         Ile         Pro         Arg         Glu         Asn         Ala         Ile         Ala			Arg		Pne	Mec	Gry	ASII		vai	пец	цур	vai		AIG	AIU	Arg
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70 Asp Asp Leu Asp Met Val Ala Ile Val Arg Tyr Ala Tyr Asp Lys Arg 71 385		Азр	_	GIU	niu	2120	711u		1110	200	J	002					
71       385       390       395       400         72       Ala Asn Pro Gln Val Gly Val Ala Phe Pro His Ile Lys His Asn Tyr 405       405       410       415         73       405       405       410       415       415         74       Glu Cys Leu Val Tyr Val Gln Leu Pro Phe Met Glu Asp Leu Arg Gln 430       420       425       430         76       Tyr Met Phe Ser Ser Leu Lys Asn Ser Lys Lys Tyr Ala Pro Thr Glu 435       440       445         78       Ala Gln Leu Asn Ala Val Asp Ala Leu Ile Asp Ser Met Ser Leu Ala 455       460         80       Lys Lys Asp Glu Lys Thr Asp Thr Leu Glu Asp Leu Phe Pro Thr Thr 460       460         81       465       470       475       460         82       Lys Ile Pro Asn Pro Arg Phe Gln Arg Leu Phe Gln Cys Leu Leu His 483       480       490       495         84       Arg Ala Leu His Pro Arg Glu Pro Leu Pro Pro Ile Gln Gln His Ile 510       510       510         86       Trp Asn Met Leu Asn Pro Pro Arg Glu Pro Leu Pro Pro Ile Gln Gln His Ile 510       510         87       515       520       525         88       Pro Leu Ser Lys Ile Lys Thr Leu Phe Pro Leu Ile Glu Ala Lys Lys 540         90       Lys Asp Gln Val Thr Ala Lys Lys Lys Leu Lys Thr Glu Gln Gln Gly Gly Ala His Pro 550       550         92 <t< td=""><td></td><td>Asp</td><td></td><td>Leu</td><td>Asp</td><td>Met</td><td>Val</td><td></td><td>Ile</td><td>Val</td><td>Arq</td><td>Tyr</td><td></td><td>Tyr</td><td>Asp</td><td>Lys</td><td>Arg</td></t<>		Asp		Leu	Asp	Met	Val		Ile	Val	Arq	Tyr		Tyr	Asp	Lys	Arg
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75       420       425       430         76       Tyr Met Phe Ser Ser Leu Lys Asn Ser Lys Lys Tyr Ala Pro Thr Glu 435       440       445       445         78       Ala Gln Leu Asn Ala Val Asp Ala Leu Ile Asp Ser Met Ser Leu Ala 455       460       485       460         80       Lys Lys Asp Glu Lys Thr Asp Thr Leu Glu Asp Leu Phe Pro Thr Thr 480       465       470       475       480         82       Lys Ile Pro Asn Pro Arg Phe Gln Arg Leu Phe Gln Cys Leu Leu His 483       485       490       495         84       Arg Ala Leu His Pro Arg Glu Pro Leu Pro Pro Ile Gln Gln His Ile 500       500       500       510         86       Trp Asn Met Leu Asn Pro Pro Ala Glu Val Thr Thr Lys Ser Gln Ile 755       520       525         88       Pro Leu Ser Lys Ile Lys Thr Leu Phe Pro Leu Ile Glu Ala Lys Lys 500       535       540         90       Lys Asp Gln Val Thr Ala Gln Glu Glu Ile Phe Gln Asp Asn His Glu Asp 550       560         92       Gly Pro Thr Ala Lys Lys Leu Lys Thr Glu Gln Gly Gly Ala His Phe 565       570       575         94       Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val 550       590       575         94       Ser Val Ser Ser Leu Ala Glu Glu Gly Ser Val Thr Ser Val Gly Ser Val 590       595       590         96       Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Se																	
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77														_		_	
78 Ala Gln Leu Asn Ala Val Asp Ala Leu Ile Asp Ser Met Ser Leu Ala         79 450       455       460         80 Lys Lys Asp Glu Lys Thr Asp Thr Leu Glu Asp Leu Phe Pro Thr Thr       470       475       480         81 465       470       470       475       480         82 Lys Ile Pro Asn Pro Arg Phe Gln Arg Leu Phe Gln Cys Leu Leu His       480       490       495         84 Arg Ala Leu His Pro Arg Glu Pro Leu Pro Pro Ile Gln Gln His Ile       500       500       510         86 Trp Asn Met Leu Asn Pro Pro Pro Ala Glu Val Thr Thr Lys Ser Gln Ile       515       520       525         88 Pro Leu Ser Lys Ile Lys Thr Leu Phe Pro Leu Ile Glu Ala Lys Lys       535       540         90 Lys Asp Gln Val Thr Ala Gln Glu Ile Phe Gln Asp Asn His Glu Asp       550       560         92 Gly Pro Thr Ala Lys Lys Leu Lys Thr Glu Gln Gly Gly Ala His Phe       565       570         94 Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val       575         94 Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val       580         96 Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Ser         97 595       600       605         98 Phe Glu Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Fhe Leu         99 610       615       620         100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys I	76	Tyr	Met		Ser	Ser	Leu	Lys		Ser	Lys	Lys	Tyr		Pro	Thr	Glu
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80 Lys Lys Asp Glu Lys Thr Asp Thr Leu Glu Asp Leu Phe Pro Thr Thr 81 465				Leu	Asn	Ala	Val		Ala	Leu	ше			мет	ser	ьęu	Ald
81 465				70 000	~1.,	Tira	Thr		Thr	Lou	Glu			Dhe	Pro	Thr	Thr
82 Lys Ile Pro Asn Pro Asn Pro Arg Phe Gln Arg Leu Phe Gln Cys Leu Leu His         83		_	пур	Asp	Giu	пуъ		Asp	TIIL	пси	Giu		пси	1110	110		
83       485       490       495         84 Arg Ala Leu His Pro Arg Glu Pro Leu Pro Pro Ile Gln Gln His Ile       500       505       510         86 Trp Asn Met Leu Asn Pro Pro Ala Glu Val Thr Thr Lys Ser Gln Ile       515       520       525         88 Pro Leu Ser Lys Ile Lys Thr Leu Phe Pro Leu Ile Glu Ala Lys Lys       530       535       540         90 Lys Asp Gln Val Thr Ala Gln Glu Ile Phe Gln Asp Asn His Glu Asp       550       550       550         92 Gly Pro Thr Ala Lys Lys Leu Lys Thr Glu Gln Gly Gly Ala His Phe       560       570       575         94 Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val       575       575         94 Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val       590         96 Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Ser       590         98 Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu         99 610       615       620         100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg			Tle	Pro	Asn	Pro		Phe	Gln	Ara	Leu		Gln	Cvs	Leu	Leu	
84 Arg Ala Leu His Pro Arg Glu Pro Leu Pro Pro Ile Gln Gln His Ile 85		шуы	110		11011		9		<b>4</b>	3				- 2			
85       500       505       510         86       Trp Asn Met Leu Asn Pro Pro Ala Glu Val Thr Thr Lys Ser Gln Ile       515       520       525         88       Pro Leu Ser Lys Ile Lys Thr Leu Phe Pro Leu Ile Glu Ala Lys Lys       525       540         90       Lys Asp Gln Val Thr Ala Gln Glu Ile Phe Gln Asp Asn His Glu Asp       510         91       545       550       555       560         92       Gly Pro Thr Ala Lys Lys Leu Lys Thr Glu Gln Gly Gly Ala His Phe       565       570       575         94       Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val       590       590         96       Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Ser       590         98       Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu         99       610       615       620         100       Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg		Arq	Ala	Leu	His		Arg	Glu	Pro	Leu	Pro	Pro	Ile	Gln	Gln	His	Ile
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87       515       520       525         88 Pro Leu Ser Lys Ile Lys Thr Leu Phe Pro Leu Ile Glu Ala Lys Lys       530       535       540         90 Lys Asp Gln Val Thr Ala Gln Glu Ile Phe Gln Asp Asn His Glu Asp       540       540         91 545       550       555       560         92 Gly Pro Thr Ala Lys Lys Leu Lys Thr Glu Gln Gly Gly Ala His Phe       565       570       575         94 Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val       590       585       590         96 Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Ser       590       605         98 Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu       620         100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg	86	Trp	Asn	Met	Leu	Asn	Pro	Pro	Ala	Glu	Val	Thr	Thr	Lys	$\operatorname{Ser}$	Gln	Ile
89       530       535       540         90       Lys       Asp       Gln       Val       Thr       Ala       Gln       Glu       Ile       Phe       Gln       Asp       Asn       His       Glu       Asp         91       545       550       550       555       560         92       Gly       Pro       Thr       Ala       Lys       Leu       Lys       Thr       Glu       Gly       Gly       Ala       His       Phe         93       565       570       575       575       575       575       575       575       575       575       575       575       575       575       590       585       590       590       590       590       590       590       590       590       590       590       590       590       590       590       605       605       605       605       605       605       605       605       605       605       605       605       605       605       605       605       605       600       605       600       605       600       605       600       605       600       605       600       605       600 <td>87</td> <td></td> <td></td> <td>515</td> <td></td> <td></td> <td></td> <td></td> <td>520</td> <td></td> <td></td> <td></td> <td></td> <td>525</td> <td></td> <td></td> <td></td>	87			515					520					525			
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91 545 550 555 560  92 Gly Pro Thr Ala Lys Lys Leu Lys Thr Glu Gln Gly Gly Ala His Phe 93 565 570 575  94 Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val 95 580 585 590  96 Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Ser 97 595 600 605  98 Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu 99 610 615 620  100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg											_	<u>.</u>				· .	_
92 Gly Pro Thr Ala Lys Lys Leu Lys Thr Glu Gln Gly Gly Ala His Phe 93 565 570 575  94 Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val 95 580 585 590  96 Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Ser 97 595 600 605  98 Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu 99 610 615 620  100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg		-	Asp	Gln	Val	Thr		Gln	Glu	Ile	Phe				His	Glu	
93 565 570 575  94 Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val  95 580 585 590  96 Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Ser  97 595 600 605  98 Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu  99 610 615 620  100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg					_			_	_	_,	~3					77.5 m	
94 Ser Val Ser Ser Leu Ala Glu Gly Ser Val Thr Ser Val Gly Ser Val 95 580 585 590 96 Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Ser 97 595 600 605 98 Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu 99 610 615 620 100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg		Gly	Pro	Thr	Ala		Lys	Leu	Lys	Thr			GTA	GIY	Ата	HIS	Pne
95 580 585 590  96 Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Ser  97 595 600 605  98 Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu  99 610 615 620  100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg		~	7	_			<b>7.7</b> -	<b>41</b>	<b>a</b> 1	0			Cox	1707	C1		u-1
96 Asn Pro Ala Glu Asn Phe Arg Val Leu Val Lys Gln Lys Lys Ala Ser 97 595 600 605 98 Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu 99 610 615 620 100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg		ser	vaı	ser		ьeu	Ата	GIU	GIY		val	1111	ser	Val		261	vai
97 595 600 605 98 Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu 99 610 615 620 100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg		7 ~~	Dro	ה וֹ ת		7 an	Dho	7 ra	T/al		Va l	T.vc	Gln	Lvc		Δla	Ser
98 Phe Glu Glu Ala Ser Asn Gln Leu Ile Asn His Ile Glu Gln Phe Leu 99 610 615 620 100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg			PIO		GIU	ASII	Pile	ALG		neu	vai	цур	GIII		БуБ	nia	DCL
99 610 615 620 100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg			Gl 11		<b>Δ</b> 1 =	Ser	Δen	Gln		Tle	Asn	Hig	Tle		Gln	Phe	Leu
100 Asp Thr Asn Glu Thr Pro Tyr Phe Met Lys Ser Ile Asp Cys Ile Arg				GIU	ATO	ner	TOIL		a.cu	<b></b>	11011	1110					
				r Ası	n Gli	u Th	r Pr		r Ph	e Me	t Lv	s Se		e Ası	р Су	s Il	e Arg
				,		·				_	4						

## RAW SEQUENCE LISTING PATENT APPLICATION: US/10/768,030 DATE: 10/18/2004 TIME: 10:55:39

Input Set: A:\2004-10-11 0760-0329P.ST25.txt
Output Set: N:\CRF4\10182004\J768030.raw

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103	7	Dla a	T	T		T 011	Cln	C111	Luc		Glu	Ile	Tave	Gln		Δan	
105				660					665					670			
	His	Phe	Trp 675	Glu	Ile	Val	Val	Gln 680	Asp	Gly	Ile	Thr	Leu 685	Ile	Thr	Lys	
107	a1	<b>71.</b>		Cor	C1,,	cor	cor		Thr	Δla	Glu	Glu		Lvs	Lvs	Phe	
109	•	690					695					700					
110	Leu	Ala	Pro	Lys	Asp	Lys	Pro	Ser	Gly	Asp	Thr	Ala	Ala	Val	Phe	Glu	
111	705					710					715					720	
112	Glu	Gly	Gly	Asp	Val	Asp	Asp	Leu	Leu	Asp	Met	Ile					
113					725					730							
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	<211				304												
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118	<213	3> OF	RGANI	ISM:	Homo	sar	piens	3									
	<400																
121	cgad	ccaaa	agc g	gcct	gagga	ac co	ggcaa	ac at	g gt	g cg	gg to	g gg	gg aa	at aa	ag go	ca gct	54
122								Me	et Va	al Ai	rg Se	er Gl	y As	sn Ly	ys A.	la Ala	
123								1				5					
125	gtt	gtg	ctg	tgt	atg	gac	gtg	ggc	ttt	acc	atg	agt	aac	tcc	att	cct	102
126	Val	Val	Leu	Cys	Met	Asp	Val	Gly	Phe	Thr	Met	Ser	Asn	Ser	Ile	Pro	
127						15					20					25	
		ata	qaa	tcc	cca	ttt	gaa	caa	gca	aag	aag	gtg	ata	acc	atg	ttt	150
130	Glv	Ile	Ğlu	Ser	Pro	Phe	Ğlu	Gln	Ala	Lys	Lys	Val	Ile	Thr	Met	Phe	
131	•				30					35	_				40		
	qta	caq	cqa	caq	ata	ttt	qct	gag	aac	aag	gat	gag	att	gct	tta	gtc	198
134	Val	Gln	Arq	Gln	Val	Phe	Āla	Glu	Asn	Lys	Asp	Glu	Ile	Ala	Leu	Val	
135			J	45					50	-				55			*
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138	Leu	Phe	Glv	Thr	Āsp	Gly	Thr	Asp	Asn	Pro	Leu	Ser	Gly	Gly	Asp	Gln	
139			60		-	-		65					70				
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142	Tvr	Gln	Asn	Ile	Thr	Val	His	Arq	His	Leu	Met	Leu	Pro	Asp	Phe	Asp	
143		75					80					85					
145	ttg	ctg	gag	gac	att	gaa	agc	aaa	atc	caa	cca	ggt	tct	caa	cag	gct	342
146	Leu	Leu	Glu	Asp	Ile	Glu	Ser	Lys	Ile	Gln	Pro	Gly	Ser	Gl'n	Gln	Ala	
147				_		95		_			100					105	
		ttc	cta	gat.	qca	cta	atc	qtq	agc	atg	gat	gtg	att	caa	cat	gaa	390
150	Asp	Phe	Leu	Asp	Ala	Leu	Ile	Val	Ser	Met	Asp	Val	Ile	Gln	His	Glu	
151	F				110					115	_				120		
	aca	ata	aga.	ааσ		t.t.t.	gag	aaq	agg	cat	att	gaa	ata	ttc	act	qac	438
154	Thr	Tle	Glv	Lvs	Lvs	Phe	Glu	Lvs	Ara	His	Ile	Glu	Ile	Phe	Thr	Asp	
155	TIII	110	Ų±Υ	125	_y 5			-,, 5	130					135		•	
157	a+ a	200	200		tta	add	222	act		cta	gat	att	ata		cat	agc	486
T2/	Tou	ayc com	ayu cor	7rc	Dho	Car	Luc	Car	Gln	Len	Agn	Ile	Tle	Tle	His	Ser	
	ьeu	ser		чтА	FIIG	DCI	пλю	145	0111	шси	1105	110	150				
159	L L		140	+	~	2 t ~	+~~		<b>a</b>	++~	++~	++~		tta	tra	ctt	534
161	ttg	aag	aaa	Lgt	yac	alC	Com	To	Cad	Dha	Dha	ttg	Dro	Dha	Spr	Leu	55.
162	ьeu	ьуѕ	ьуѕ	cys	Asp	тте	ser	ьeu	GTII	FIIG	FIIE	Leu	FIO	FIIG	DCT	<b>L</b> Cu	

### RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/768,030 TIME: 10:55:39

DATE: 10/18/2004

Input Set : A:\2004-10-11 0760-0329P.ST25.txt
Output Set: N:\CRF4\10182004\J768030.raw

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	170					175		•			180					185	
	ggt																630
170	Gly	Gly	His	Gly	Pro	Ser	Phe	Pro	Leu	Lys	Gly	Ile	Thr	Glu	Gln	Gln	
171					190					195					200		
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	Lys																
175	-		1	205				-	210					215		_	
	gaa	gat	aaa		gat	gaa	att	tat	tca	ttc	agt	qaq	aqt	cta	aga	aaa	726
178	Glu	Asn	Glv	Len	Asp	Glu	Tle	Tvr	Ser	Phe	Ser	Glu	Ser	Leu	Arq	Lys	
179		тыр	220					225					230			-	
	ctg	tac		ttc	aad	aaa	att		agg	cat	tac	att		t.aa	ccc	tac	774
101	Leu	Cve	Val	Dhe	Lve	Lve	Tle	Glu	Ara	His	Ser	Tle	His	Trn	Pro	Cvs	
		235	vaı	FIIC	цуз	цуз	240	GIU	ALG	111.13	DCI	245	1110		110	CID	
183	cga		200	2++	aaa	+ a a		t+a	tat	ata	200		aca	acc	tat	222	822
																Lys	
	_	ьец	1111	TIE	GIY		ASII	ьеи	per	116	260	116	Ата	міа	тут	265	•
	250					255				t		202	~++	~+ ~	~~+		870
	tcg																870
	Ser	ше	Leu	GIN		Arg	vaı	гуѕ	ьуѕ		пр	1111	Val	val		Ala	
191					270					275					280		010
	aaa																918
	Lys	Thr	Leu		Lys	GIu	Asp	He		гÀг	GIU	Thr	vaı		Cys	ьeu	
195				285					290					295			0.00
197	aat	gat	gat	gat	gaa	act	gaa	gtt	tta -	aaa	gag	gat	att	att	caa	999	966
	Asn	Asp	_	Asp	Glu	Thr	GIu		Leu	Lys	Glu	Asp		шe	Gin	GIY	
199			300					305					310				
	ttc																1014
	Phe	Arg	Tyr	Gly	Ser	Asp		Val	Pro	Phe	Ser		Val	Asp	GIu	GIu	
203		315					320					325					
205	caa	atg	aaa	tat	aaa	tcg	gag	ggg	aag	tgc	ttc	tct	gtt	ttg	gga	ttt	1062
206	Gln	Met	Lys	Tyr	Lys	Ser	Glu	Gly	Lys	Cys	Phe	Ser	Val	Leu	Gly	Phe	
	330					335					340					345	
	tgt																1110
210	Cys	Lys	Ser	Ser	Gln	Val	Gln	Arg	Arg	Phe	Phe	Met	Gly	Asn	Gln	Val	
211					350					355					360		
213	cta	aag	gtc	ttt	gca	gca	aga	gat	gat	gag	gca	gct	gca	gtt	gca	ctt	1158
214	Leu	Lys	Val	Phe	Ala	Ala	Arg	Asp	Asp	Glu	Ala	Ala	Ala	Val	Ala	Leu	
215		_		365					370					375			
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	Ser																
219			380					385	-		_		390				
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222	Arg	Tvr	Ala	Tvr	Asp	Lvs	Ara	Ala	Asn	Pro	Gln	Val	Glv	Val	Ala	Phe	
223	_	395		-1-		-,-	400		<b></b>			405	- 4				
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	Pro																<del>_</del>
		1110	11C	ъγз	1113	415	- y -	O <sub>1</sub> u	Cys	u	420	- 1 -				425	
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#### RAW SEQUENCE LISTING

DATE: 10/18/2004 TIME: 10:55:39

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PATENT APPLICATION: US/10/768,030

Output Set: N:\CRF4\10182004\J768030.raw

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234	Lys	Lvs	Tvr	Āla	Pro	Thr	Glu	Āla	Gln	Leu	Asn	Ala	Val	Asp	Ala	Leu	
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	Ile																
	TIE	Asp		Mec	ser	пеп	Ата	цу5 465	цуз	дар	GIU	פעם	470	TOP		<b>L</b> Cu	
239			460								+	~~+		+++	a2a	202	1494
	gaa																1494
242	Glu		Leu	Phe	Pro	Thr		Lys	тřе	Pro	Asn		Arg	Pne	GIII	Arg	
243		475					480					485					_
245	tta	ttt	cag	tgt	ctg	ctg	cac	aga	gct	tta	cat	CCC	cgg	gag	cct	cta	1542
246	Leu	Phe	Gln	Cys	Leu	Leu	His	Arg	Ala	Leu	His	Pro	$\operatorname{\mathtt{Arg}}$	Glu	Pro	Leu	
	490					495					500					505	
249	ccc	cca	att	caq	caq	cat	att	tgg	aat	atg	ctg	aat	cct	CCC	gct	gag	1590
	Pro																
251					510					515					520		
	gtg	202	aca	222		cad	att	cct	ctc		aaa	ata	aaq	acc	ctt	ttt	1638
255	Val	Thr.	Thr	Tyc	Cor	Cln	Tla	Dro	T.011	Ser	Lvs	Tle	Lvs	Thr	Len	Phe	
	val	TIIL	IIII		per	GIII	116	110	530	DCI	цуБ	110	<b></b> , _	535		1110	
255			. 1. 4.	525							~+~	204	~at			a++	1686
257	cct	ctg	att	gaa	gcc	aag -	aaa	aag -	gat	Caa	gra	act.	get	cay	gaa	TIO	1000
	Pro	Leu		Glu	Ala	Lys	Lys		Asp	GIn	vai	Thr		GIN	GIU	ше	
259			540					545					550				
261	ttc	caa	gac	aac	cat	gaa	gat	gga	cct	aca	gct	aaa	aaa	tta	aag	act	1734
262	Phe	Gln	Asp	Asn	His	Glu	Asp	Gly	Pro	Thr	Ala	Lys	Lys	Leu	Lys	Thr	
263		555					560					565					
265	gag	caa	ggg	gga	gcc	cac	ttc	agc	gtc	tcc	agt	ctg	gct	gaa	ggc	agt	1782
266	Glu	Gln	Gly	Gly	Ala	His	Phe	Ser	Val	Ser	Ser	Leu	Ala	Glu	Gly	Ser	
	570		-			575					580					585	
	gtc	acc	tct	att	qqa	aqt	ata	aat	cct	qct	qaa	aac	ttc	cgt	gtt	cta	1830
270	Val	Thr	Ser	Val	Glv	Ser	Val	Asn	Pro	Āla	Glu	Asn	Phe	Arq	Val	Leu	
271					590					595					600		•
	gtg	222	cac	aan		acc	agg	+++	aaa		aca	agt.	aac	cag	ctc	ata	1878
273	Val	T	Cla	Trea	Lug	חות	Cor	Dho	Glu	Glu	Δla	Ser	Δen	Gln	Len	Tle	
	Val	гув	GIII		цув	Ala	SCI	FILE	610	Giu	ALG	DCI	21011	615		110	•
275				605		1 1.4.					~~~		~~~		+++	ata	1926
	aat																1920
278	Asn	His		Glu	GIn	Pne	Leu		Thr	Asn	GIU	Thr		TYL	Pne	мес	
279			620					625					630				
281	aag	agc	ata	gac	tgc	atc	cga	gcc	ttc	cgg	gaa	gaa	gcc	att	aag	ttt	1974
282	Lys	Ser	Ile	Asp	Cys	Ile	Arg	Ala	Phe	Arg	Glu	Glu	Ala	Ile	Lys	Phe	
283		635					640					645					
285	tca	qaa	qaq	caq	cqc	ttt	aac	aac	ttc	ctg	aaa	gcc	ctt	caa	gag	aaa	2022
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202	Val	71	71.	Larg	Cl n	Leu	Man	Hic	Dhe	733 Trn	Glu	Tle	Val	Val	Gln	Asp	
		GIU	тте	пλя	670	πeα	UDII	1113	FIIG	675	Oru	<u> </u>	v u ı	, u _	680	P	
291		_,,							~~-		+~+	~~~	a~+	+ a+		202	2118
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VERIFICATION SUMMARY

DATE: 10/18/2004

PATENT APPLICATION: US/10/768,030

TIME: 10:55:40

Input Set : A:\2004-10-11 0760-0329P.ST25.txt Output Set: N:\CRF4\10182004\J768030.raw